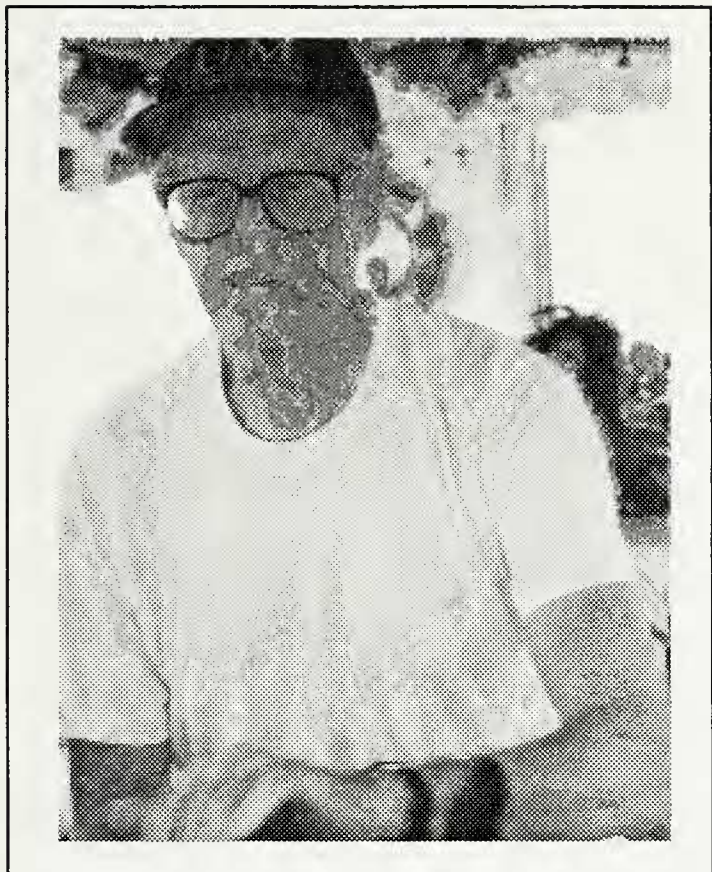


Miscellanea

Charles Overton Handley, Jr.**A Remembrance**

Charles O. Handley, Jr., age 75, died of a malignant brain tumor on June 9, 2000, following a brief illness. Charles was born in Longview, Texas, on July 14, 1924 and grew up in Virginia where his father (1897-1977) was a wildlife biologist (see *The Raven* 49: 69-70). A Curator of Mammals at the Smithsonian Institution, National Museum of Natural History at the time of his death, he began his employment at the NMNH with the Fish and Wildlife Service in the Division of Birds in 1946 and transferred to the Smithsonian staff in the Division of Mammals in 1950. He was an active member of the museum staff for more than fifty-three years. Charles earned his B.S. at Virginia Polytechnic Institute in 1944 (pre-med), and his M.A. and Ph.D. in Zoology from the University of Michigan in 1947 and 1955, respectively.

Although known to many of us as an explorer, natural scientist, and author, Charles was also a patient and caring teacher who, whether in the field or in more structured situations, loved to share his knowledge of nature with anyone who would listen. As part of the Smithsonian Resident Associate Program he taught several courses, both youth and adult, each year from 1966-1992; several of the kids now have their Ph.D.s. In the period 1962-1978 he taught a graduate level mammalogy course at the University of Virginia's

Mountain Lake Biological Station ten times, and for two summers he taught mammalogy and directed graduate students at the Rocky Mountain Biological Laboratory. He was on the committees of graduate students from eight universities and served as field or dissertation advisor of pre- and post-doctoral students from several continents.

Charles was known to be a very precise, thoughtful, and careful scientist and author. Among his colleagues he was known as a guardian of the conventions and rules of nomenclature, publication, citation, and measurement. A necessary hurdle before publishing was the Handley test. No doubt, a high percentage of the manuscripts published on Virginia mammals in the past 50 years first passed over his desk for review. An omen of his future achievements in the field of mammalogy, Charles was in his early 20s when his book *Wild Mammals of Virginia* was published. I had the good fortune of collecting the first specimens of two Virginia mammals and also published on several range expansions—state records or locations that he had predicted in the book in 1947! Indeed, Charles was the patriarch of Virginia mammalogy. No one knew more about the diversity and ecology of mid-Atlantic mammals than Charles. Nobody knew more about factors that limit or encourage distributions of mammals of the mid-Atlantic region than did Charles. On a local scale, he personally obtained more than 50 years of bird notes and data from small mammal transects at the University of Virginia's Mountain Lake Biological Station. On a somewhat grander scale, the thoughts brought forth in his "Appalachian mammalian geography—Recent Epoch" (1972) and in his "Terrestrial mammals of Virginia: trends in distribution and diversity" (1992), are necessary—even fun—reading for anybody with an interest in mammals of the region.

Charles' knowledge of Virginia mammals served as a keystone to biologists, land managers, and others concerned with Virginia mammals. From 1977 to 1998 he served as chairman of the Virginia Mammal Advisory Committee. He was the primary author of the mammal chapter and author or co-author of many of the mammal species accounts in the proceedings of both the 1978 and 1989 symposia on Virginia's threatened and endangered species. Charles' efforts and contributions did not go unrecognized. Among awards that he received were the Thomas Jefferson Medal from the Virginia Museum of Natural History Foundation for outstanding contributions to natural history, as well as a Certificate of Appreciation from the Board of Directors of the Virginia Department of Game and Inland

Fisheries for his efforts in the conservation of endangered species. At least 12 taxa were named for him, including a winged bat fly, *Trichobius handleyi* Wenzel; a mite, *Hoffmania handleyi* Brennan and Jones; a hummingbird, *Amazilia handleyi* Wetmore; the mouse possum *Marmosa handleyi* Pine; and a bat, *Lonchophylla handleyi* Hill.

Charles was best known internationally for his work on mammals of the New World tropics. He was an expert on Latin American bats and rodents. It is difficult to find publications on the distribution, systematics, ecology, community structure, roosting, and foraging behaviors of various species of bats of that area that do not cite one of Charles' works. As a recent example, in the first number of the 1999 volume of the *Journal of Mammalogy*, at least three different papers cited work that Charles completed in Latin America.

Charles' publications, which number over 200 and include more than 50 dated 1990 or later, tell an interesting story about the mark that he made in biology. It is an unusually diffuse mark with subjects ranging from birds and bats to figs and whales. It includes a paper from "the European Theater of War," where he served with the U.S. Army 120th Infantry in 1944-1945. He published at least 60 papers on birds. He published articles of general interest, select encyclopedic accounts, articles on measuring specimens and bio-illustration, and popular articles in wildlife magazines. He published no less than 18 reviews of scientific publications, works that covered diverse groups, topics, and geographical areas. The list below includes most of Charles' publications that concern organisms of the mid-Atlantic area. It includes both peer and non-peer reviewed publications. Numerous papers summarizing results of Audubon Christmas Bird Counts and review articles are among those articles not included. In a broader geographical sense, the bibliography presented here is very incomplete—it does not include more than 80 peer-reviewed research articles and books on mammals of tropical America. Whether their research involves Virginia birds, mid-Atlantic mammals or mammals of Panama, Venezuela, or Brazil, future researchers will necessarily have to note his work in order to pursue their own studies—both in an immediate sense, and that of the broadly defined discipline.

Here we remember our colleague and friend and are reminded that Charles O. Handley, Jr. was a major contributor in our attempts to learn Virginia's natural history. In addition to two daughters, Rebecca and Rachael, from an earlier marriage, Charles is survived by Darelyn, his wife of 32 years, and their two sons, Benjamin and Thomas. One cannot help but think that

it must have been very special to Charles to have co-authored papers with his father, Charles O. Handley, Sr. (1946 and 1950), Darelyn (1996), and Ben (1998).

The Smithsonian Institution has established the Handley Memorial Fund to finish manuscripts underway and to assist Latin American students wishing to study at the National Museum of Natural History. Contributions may be sent to the Division of Mammals, NMNH, Smithsonian Institution, Washington, DC 20560-0108.

Selected Bibliography

- 1937 Handley, C. O., Jr. American Rough-legged Hawk at Blacksburg. *The Raven* 9(1): 2-3.
- 1940 Handley, C. O., Jr. Additions to the Montgomery County [bird] list. *The Raven* 11(3&4): 13-15.
- 1940 Handley, C. O., Jr. Interesting [bird] observations from southwest Virginia. *The Raven* 11(3&4): 17-18.
- 1941 Handley, C. O., Jr. The season (1940) at Blacksburg. *The Raven* 12(1): 2-4.
- 1941 Handley, C. O., Jr. Five new birds from Montgomery County, Virginia. *The Raven* 12(1): 4.
- 1941 Handley, C. O., Jr. Montgomery County nesting notes. *The Raven* 12(8&9): 61-63.
- 1942 Handley, C. O., Jr., & J. J. Murray. Gambel's Sparrow in western Virginia. *Auk* 59(4): 579-580.
- 1944 Handley, C. O., Jr. Further notes on the Whistling Swan in southwest Virginia. *The Raven* 15(1&2): 14.
- 1945 Handley, C. O., Jr. With a member of the V.S.O. in the European Theater of War. *The Raven* 16(7&8): 33-56.
- 1945 Handley, C. O., Jr. Late summer birds of Fort Valley, Shenandoah County, Virginia. *The Raven* 16(11&12): 71-74.
- 1945 Handley, C. O., Jr. Six rare or unusual birds in Montgomery County. *The Raven* 16(11&12): 76-78.

- 1946 Handley, C. O., Jr. The Lapland Longspur in Montgomery County. *The Raven* 17(2&3): 25.
- 1947 Handley, C. O., Jr. Breeding birds of a cedar barren. *The Raven* 18(3&4): 11-14.
- 1947 Handley, C. O., Jr., & C. P. Patton. Wild Mammals of Virginia. Commission of Game and Inland Fisheries, Richmond, VA. vi + 220 pp.
- 1948 Handley, C. O., Jr. Subspecific identities of some winter and transient birds from Virginia. *Auk* 65(1): 133-135.
- 1948 Handley, C. O., Jr. Habitat of the golden mouse in Virginia. *Journal of Mammalogy* 29(3): 298-299.
- 1949 Handley, C. O., Jr. Least weasel, prey of barn owl. *Journal of Mammalogy* 30(4): 431.
- 1950 Barnes, I. R., & C. O. Handley, Jr. King Eiders seen at Ocean City. *Atlantic Naturalist* 5(4): 183-184.
- 1950 Handley, C. O., Jr., & C. O. Handley, Sr. The James River Basin: Past, Present and Future: Mammals. Virginia Academy of Science, Richmond pp. 235-276, 2 pls.
- 1952 Handley, C. O., Jr. The Newfoundland Hermit Thrush in Virginia. *The Raven* 23(1&2): 10.
- 1952 Handley, C. O., Jr. A new pine mouse (*Pitymys pinetorum carbonarius*) from the southern Appalachian Mountains. *Journal of the Washington Academy of Science* 42(5): 152-153.
- 1953 Handley, C. O., Jr. A new flying squirrel from the southern Appalachian Mountains. *Proceedings of the Biological Society of Washington* 66: 191-194.
- 1955 Handley, C. O., Jr. A possible sight record of Brewer's Blackbird for Virginia. *The Raven* 26(2&3): 40-42.
- 1956 Handley, C. O., Jr. Mammal bones from West Virginia caves. *American Midland Naturalist* 56(1): 250-256.
- 1956 Handley, C. O., Jr. The shrew *Sorex dispar* in Virginia. *Journal of Mammalogy* 37(3): 435.
- 1961 Handley, C. O., Jr., R. Stafford, & E. H. Geil. A West Virginia puma. *Journal of Mammalogy* 42(2): 277-278.
- 1965 Paradiso, J. L., & C. O. Handley, Jr. Checklist of mammals of Assateague Island. *Chesapeake Science* 6(3): 167-171.
- 1966 Handley, C. O., Jr. A synopsis of the genus *Kogia* (pygmy sperm whales). Pp. 62-69 *In* K. S. Norris (ed.), *Whales, Dolphins, and Porpoises*. University of California Press, Berkeley, CA.
- 1967 Guilday, J. E., & C. O. Handley, Jr. A new *Peromyscus* (Rodentia: Cricetidae) from the Pleistocene of Maryland. *Annals of the Carnegie Museum* 39(6): 91-103.
- 1971 Solomon, G. B., & C. O. Handley, Jr. *Capillaria hepatica* (Bancroft, 1893) in Appalachian mammals. *Journal of Parasitology* 57(5): 1142-1144.
- 1971 Handley, C. O., Jr. Appalachian Mammalian Geography -- Recent Epoch. Pp. 263-303 *In* P. C. Holt (ed.), *The Distributional History of the Biota of the Southern Appalachians, Part III: Vertebrates*. Research Division Monograph 4, Virginia Polytechnic Institute and State University, Blacksburg, VA.
- 1979 Handley, C. O., Jr. Status of the mountain lion in Virginia. *Eastern Cougar Newsletter* 2: 4-5.
- 1979 Handley, C. O., Jr. Avocet in West Virginia. *The Redstart* 46(4): 148.
- 1979 Handley, C. O., Jr. Mammals of the Dismal Swamp: A historical account. Pp. 297-357 *In* P. W. Kirk, Jr. (ed.), *The Great Dismal Swamp*. University Press of Virginia, Charlottesville, VA.
- 1979 Handley, C. O., Jr. Mammals. Pp. 483-621 *In* D. W. Linzey (ed.), *Endangered and Threatened Plants and Animals of Virginia*. Center for Environmental Studies, Virginia Polytechnic Institute and State University, Blacksburg, VA. Includes numerous species accounts with various co-authors.

- 1980 Tate, C. M., J. F. Pagels, & C.O. Handley, Jr. Distribution and systematic relationship of two kinds of short-tailed shrews (Soricidae: *Blarina*) in south-central Virginia. *Proceedings of the Biological Society of Washington* 93(1): 50-60.
- 1981 Handley, C. O., Jr. Brewer's Blackbird in eastern West Virginia. *The Redstart* 48(2): 62-63.
- 1982 Handley, C. O., Jr. Deletion of *Sorex cinereus fontinalis* from taxa known to occur in Virginia. *Journal of Mammalogy* 63(2): 319.
- 1983 Pagels, J. F., C. S. Jones, & C. O. Handley, Jr. Northern limits of the southeastern shrew, *Sorex longirostris* Bachman (Insectivora: Soricidae), on the Atlantic coast of the United States. *Brimleyana* 8: 51-59.
- 1983 Handley, C. O., Jr. The Black-headed Gull inland in Virginia. *The Raven* 54(1): 18-20.
- 1989 Pagels, J. F., & C. O. Handley, Jr. Distribution of the southeastern shrew, *Sorex longirostris* Bachman, in western Virginia. *Brimleyana* 15: 123-131.
- 1991 Handley, C. O., Jr. Mammals. Pp. 539-616 *In* K. Terwilliger (coordinator), *Virginia's Endangered Species. Proceedings of a Symposium.* McDonald and Woodward Publishing Company, Blacksburg, VA. Includes numerous species accounts with various co-authors.
- 1992 Handley, C. O., Jr. Terrestrial mammals of Virginia: Trends in distribution and diversity. *Virginia Journal of Science* 43 (1B): 157-169.
- 1993 Kalko, E. K. V., & C. O. Handley, Jr. Comparative studies of small mammal populations with transects of snap traps and pitfall arrays in southwest Virginia. *Virginia Journal of Science* 44(1): 3-18.
- 1993 Handley, C. O., Jr., & E. K. V. Kalko. A short history of pitfall trapping in America, and a review of methods currently used for small mammals. *Virginia Journal of Science* 44(1): 19-26.
- 1994 Handley, C. O., Jr., & M. Varn. The trapline concept applied to pitfall arrays. Pp. 285-287 *In* J. F. Merritt, G. L. Kirkland, Jr., & R. K. Rose (eds.), *Advances in the Biology of Shrews.* Carnegie Museum of Natural History Special Publication No. 18, Pittsburgh, PA.
- 1994 Handley, C. O., Jr., & M. Varn. Identification of the Carolinian shrews of Bachman 1837. Pp. 393-406 *In* J. F. Merritt, G. L. Kirkland, Jr., & R. K. Rose (eds.), *Advances in the Biology of Shrews.* Carnegie Museum of Natural History Special Publication No. 18, Pittsburgh, PA.
- 1995 Handley, C. O., Jr. Mammals. Pp. 174-196 *In* K. Terwilliger & J. R. Tate (coordinators), *A Guide to Endangered and Threatened Species in Virginia.* McDonald and Woodward Publishing Company, Blacksburg, VA. Abridged publication of 1991 proceedings; includes numerous species accounts with various co-authors.
- 1997 Handley, C. O., Jr. Mammals found in Virginia. Pp. 261-263 *In* D. W. Johnston (compiler), *A Birder's Guide to Virginia.* American Birding Association, Inc., Colorado Springs, CO.
- 1998 Handley, C. O., Jr., & B. R. Handley. Franklin's Gull at Assateague Island, Virginia. *The Raven* 69(1): 44-45.
- 2000 Handley, C. O., Jr. Mammals of the USDA Biological Survey of the Dismal Swamp, 1895-1898. Pp. 11-19 *In* R. K. Rose (ed.), *The Natural History of the Great Dismal Swamp.* Old Dominion University Publications, Norfolk, VA.

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